ENDOCRINOLOGY INDEX

National Institute of Arthritis,
Metabolism, and Digestive Diseases

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Public Health Service
National Institutes of Health

MAY-JUNE 1978
VOLUME 11, NO. 3

EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citations (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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ENDOCRINOLOGY INDEX

National Institute of Arthritis, Metabolism, and Digestive Diseases

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ACKNOWLEDGMENT

The *Endocrinology Index* was compiled with the cooperation and assistance of the staff of the National Library of Medicine. The citations were processed by the Library's computer-based Medical Literature Analysis and Retrieval System (MEDLARS).

DHEW Publication No. (NIH) 78-273

ISSN 0013-7235

PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

Endocrinology Index was developed with the support of contract PH43-66-480 in 1966-70 to Vanderbilt University under the direction of Grant W. Liddle. The National Institute of Arthritis, Metabolism, and Digestive Diseases is most appreciative of the fine work in originally developing and editing the *Index* provided by Grant W. Liddle and Victoria Ragin Liddle and for their continuing editorial advice in making the *Endocrinology Index* a most important and necessary component of endocrinology literature within the biomedical research community.

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1981

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HYPERPITUITARISM

COMPLICATIONS

[Pathogenesis of diabetic retinopathy and its treatment] Margolis MT, et al. **Oftalmol Zh** 32(8):618–21, 14 Dec 77 (42 ref.) (Rus)

THERAPY

[Pathogenesis of diabetic retinopathy and its treatment] Margolis MT, et al. **Oftalmol Zh** 32(8):618–21, 14 Dec 77 (42 ref.) (Rus)

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RADIOTHERAPY

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SIMMONDS' DISEASE

PATHOLOGY

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PITUITARY

III. Pituitary Hormones, Precursors, Metabolites and Synthetic Analogs

ARGININE VASOPRESSIN

ADMINISTRATION & DOSAGE

Intranasal application of D.D.A.V.P. in severe haemophilia [letter] Sutor AH, et al. **Lancet** 1(8061):446, 25 Feb 78

ANALOGS & DERIVATIVES

Neurogenic diabetes insipidus: management with dDAVP (1-desamino-8-D arginine vasopressin). Cobb WE, et al. **Ann Intern Med** 88(2):183-8, Feb 78

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ANTAGONISTS & INHIBITORS

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ANALOGS & DERIVATIVES

Peptides and the conversion of [3H]tyrosine to catecholamines: effects of ACTH-analogs, melanocyte-stimulating hormones and lysine-vasopressin. Iuvone PM, et al. **Brain Res** 139(1):131-9, 6 Jan 78

ACTH and ACTH4-10 modification of neophobia and taste aversion responses in the rat. Smotherman WP, et al. **J Comp Physiol Psychol** 92(1):22-33, Feb 78

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IV. Thyroid Antagonists and Inhibitors

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18-HYDROXYCORTICOSTERONE

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ADVERSE EFFECTS

[Complication–free labor in operated–on Cushing's syndrome] Schnapp HJ, et al. **Z Gesamte Inn Med** 32(23):667–9, 1 Dec 77 (Eng. Abstr.) **(Ger)**

PHARMACODYNAMICS

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THERAPEUTIC USE

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PHARMACODYNAMICS

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URINE

Plasma pregnenolone and 17–OH–pregnenolone in hirsute amenorrhoeic patients. Lorber DL, et al. **Acta Endocrinol (Kbh)** 87(3):566–76, Mar 78

Unusual heterozygotes of congenital adrenal hyperplasia due to 21–hydroxylase deficiency. Zachmann M, et al. **Acta Endocrinol (Kbh)** 87(3):557–65, Mar 78

TETRAHYDROCORTISOL

ANALYSIS

Determination of cortisol, tetrahydrocortisol, tetrahydrocortisone, corticosterone, and aldosterone in human amniotic fluid. Aderjan R, et al. **J Steroid Biochem** 8(5):525–8, May 77

TETRAHYDROCORTISONE

ANALYSIS

Determination of cortisol, tetrahydrocortisol, tetrahydrocortisone, corticosterone, and aldosterone in human amniotic fluid. Aderjan R, et al. **J Steroid Biochem** 8(5):525–8, May 77

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[Changes of urinary metabolites of cortisol in patients with chronic unspecific lung diseases] Shelygina NM, et al. **Vrach Delo** (12):80–2, Dec 77 (Eng. Abstr.) **(Rus)**

TRIAMCINOLONE

ADMINISTRATION & DOSAGE

Systemic steroid therapy with intramuscularly injected triamcinolone. Arnold HL Jr. **South Med J** 71(2):102–7, Feb 78

THERAPEUTIC USE

Systemic steroid therapy with intramuscularly injected triamcinolone. Arnold HL Jr. **South Med J** 71(2):102–7, Feb 78

TRIAMCINOLONE ACETONIDE

ADMINISTRATION & DOSAGE

Systemic steroid therapy with intramuscularly injected triamcinolone. Arnold HL Jr. **South Med J** 71(2):102–7, Feb 78

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Metyrapone: a possible tool in investigating the role of endogenous corticosteroids in inflammation. Parnham MJ. **Agents Actions [Suppl]** 2:85–97, 1977

Imaging the adrenal glands with radiolabeled inhibitors of enzymes: concise communication. Beierwaltes WH, et al. **J Nucl Med** 19(2):200–3, Feb 78

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PITUITARY-ADRENAL SYSTEM

DRUG EFFECTS

Decreased aggressive behavior in the offspring of ACTH-treated mice. Simon NG, et al. **Behav Biol** 21(4):478–88, Dec 77

Responses of the pituitary–adrenal system of the pig to environmental changes and drugs. Blatchford D, et al. **Br J Pharmacol** 62(2):241–54, Feb 78

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Decreased aggressive behavior in the offspring of ACTH-treated mice. Simon NG, et al. **Behav Biol** 21(4):478–88, Dec 77

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A relationship between plasma concentrations of testosterone and corticosteroids during sexual and aggressive behaviour in the boar. Liptrap RM, et al. **J Endocrinol** 76(1):75–85, Jan 78

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Site of fast, rate-sensitive feedback inhibition of adrenocorticotropin secretion during stress. Kaneko M, et al. **Am J Physiol** 234(1):R46-51, Jan 78

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The possible importance of aldosterone as well as renin in the long-term antihypertensive action of propranolol. Drayer JI, et al. **Am J Med** 64(2):187-92, Feb 78

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V. *Adrenal Medulla*

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II. *Disorders of the Gonads*

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Ovarian germinomas (dysgerminomas). Burkons DM, et al. **Obstet Gynecol** 51(2):221–4, Feb 78

[Apropos of 2 rare forms of testicular seminoma: a case of

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Fertile eunuch syndrome versus classic hypogonadotrophic hypogonadism. Smals AG, et al. **Acta Endocrinol (Kbh)** 87(2):389–99, Feb 78

GRANULOSA CELL TUMOR

Granulosa and theca cell tumors. Anikwue C, et al. **Obstet Gynecol** 51(2):214–20, Feb 78

COMPLICATIONS

Origin of estrogen in isosexual precocious pseudopuberty due to a granulosa-theca cell tumor. Madden JD, et al. **Obstet Gynecol** 51(2):210–3, Feb 78

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A phase II study of combined adriamycin, L-PAM, and methotrexate with citrovorum factor rescue in advanced ovarian carcinomas. Tropé C, et al. **Tumori** 63(5):469–77,

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Serum-testosterone during oral administration of testosterone in hypogonadal men and transsexual women. Føgh M, et al. **Acta Endocrinol (Kbh)** 87(3):643-9, Mar 78

A syndrome of functional hypogonadotropic hypogonadism and sterility in a male with elevated serum estradiol [letter] Odell WD. **Fertil Steril** 29(1):115-6, Jan 78

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HYDROXYTESTOSTERONES

IMMUNOLOGY

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Responses to sustained use of anabolic steroid. Shephard RJ, et al. **Br J Sports Med** 11(4):170–3, Dec 77

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The effect of antiandrogens and stilboestrol on the cytosol receptor in rat prostate. Ghanadian R, et al. **Br J Urol** 49(7):695–700, 1977

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Specificity of the cholesterol side-chain cleavage enzyme system of adrenal cortex. Burstein S, et al. **Steroids** 30(4):439–53, Oct 77

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Ectopic pregnancies during use of low-dose progestogens for oral contraception. Liukko P, et al. **Contraception** 16(6):575–80, Dec 77

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PLACENTA

I. Physical and Functional Aspects

PLACENTA

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II. Disorders of the Placenta

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PLACENTA DISORDERS

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TROPHOBLASTIC TUMOR

BLOOD

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Primary mediastinal trophoblastic teratomas. Walden PA, et al. **Thorax** 32(6):752–8, Dec 77 (30 ref.)

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PLACENTA

III. Placental Hormones, Precursors, Metabolites and Synthetic Analogs

GONADOTROPINS, CHORIONIC

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BIOSYNTHESIS

New tissue culture cell lines derived from human squamous cell carcinoma of the cervix and vagina. Squamous cells in tissue culture. Porter JC, et al. **Am J Obstet Gynecol** 130(4):487–96, 15 Feb 78

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PARATHYROID AND BONE

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PARATHYROID AND BONE

III. Parathyroid Hormone

PARATHYROID HORMONE

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PARATHYROID AND BONE

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Retardation of sexual development in pinealectomized Single Comb White Leghorn cockerels. Cogburn LA, et al. **Poult Sci** 56(3):876-82, May 77

TRANSPLANTATION

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ULTRASTRUCTURE

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NEUROENDOCRINOLOGY

II. Disorders of the Amygdaloid Body

AMYGDALOID BODY

INJURIES

[Effects of electrothermocoagulation of the amygdaloid nuclei on the cellular multiplication in the epithelium of the small intestinal lymph nodes] Bindoni M, et al. **Boll Soc Ital Biol Sper** 53(15):1279–83, 15 Aug 77 **(Ita)**

PINEALOMA

COMPLICATIONS

Pathognomonic aspect of germinoma on CT scan. Dupont MG, et al. **Neuroradiology** 14(4):209–11, 31 Dec 77

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NEUROENDOCRINOLOGY

III. Neuroendocrine System Hormones, Precursors, Metabolites and Synthetic Analogs

CORTICOTROPIN RELEASING HORMONE

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ANTAGONISTS & INHIBITORS

Effect of cordycepin on CRF stimulation and steroid inhibition of ACTH secretion by rat pituitary cells. Brattin WJ, et al. **Mol Cell Endocrinol** 9(3):279-89, Jan 78

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LH-FSH RELEASING HORMONE

CIDNP in tyrosyl protons of luliberin. Muszkat KA, et al. **Nature** 271(5646):685-6, 16 Feb 78

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Levels of luteinizing hormone (LH), follicle-stimulating hormone, and 17 beta-estradiol in response to D-Trp6-LH-releasing hormone during different phases of the menstrual cycle in normal women. Jaramillo CJ, et al. **Fertil Steril** 29(2):153-8, Feb 78

Hormonal and clinical responses in amenorrhetic patients treated with gonadotropins and a nasal form of synthetic gonadotropin-releasing hormone. Potashnik G, et al. **Fertil Steril** 29(2):148-52, Feb 78

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Effect of pre-incubation with different concentrations of LH-RH on subsequent LH release caused by supramaximally active amounts of LH-RH; role of LH-RH-induced protein synthesis. de Koning J, et al. **Life Sci** 21(11):1621-7, 1 Dec 77

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[Evidence of an epididymis factor inhibiting the hypothalamic synthesis of FSH-RH in the rat] Le Lannou D, et al. **C R Soc Biol (Paris)** 171(5):1064-7, 1977 (Eng. Abstr.) **(Fre)**

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MSH RELEASE INHIBITING HORMONE

ANALOGS & DERIVATIVES

Synthetic MIF analogues. Part I: synthesis by four-component condensation (4 CC) and classical methods. Failli A, et al. **Arzneim Forsch** 27(12):2286–9, 1977

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Synthetic MIF analogues. Part I: synthesis by four-component condensation (4 CC) and classical methods. Failli A, et al. **Arzneim Forsch** 27(12):2286–9, 1977

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Comparison of the regulation of rotational behavior by hypothalamic oligopeptides. Cohn ML, et al. **Psychoneuroendocrinology** 2(2):197-202, 1977

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PITUITARY HORMONE RELEASE INHIBITING HORMONES

METABOLISM

Presence of peptide hormones that control gonadotropin secretion in extrahypothalamic areas of the brain. Currie BL, et al. **Biochem Biophys Res Commun** 79(4):1207-11, 21 Dec 77

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PITUITARY HORMONE RELEASING HORMONES

BIOSYNTHESIS

Variation of blood glucose and serum growth hormone, prolactin and insulin in subjects with insulin-dependent diabetes, after OGTT and pretreatment with 2-Br-alpha-ergocryptine. Gnudi A, et al. **Acta Diabetol Lat** 14(3-4):119-28, May-Aug 77

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CYCLIC NUCLEOTIDES

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[Hemostatic disorders in thyrotoxicosis and their correction] Pavlovskil DP. **Probl Endokrinol (Mosk)** 23(6):107–13, Nov–Dec 77 (90 ref.) **(Rus)**

HYPOTHALAMO–HYPOPHYSEAL SYSTEM

INNERVATION

[Neurotransmission in the hypothalamo–hypophyseal system and its role in the control of adenohypophysis secretion] Pawlikowski M, et al. **Endokrynol Pol** 28(6):461–77, Nov–Dec 77 (91 ref.) **(Pol)**

HYPOTHALAMUS

GROWTH & DEVELOPMENT

Sex hormones as growth promoting factors for the endocrine hypothalamus. Naftolin F, et al. **J Steroid Biochem** 8(5):339–43, May 77 (32 ref.)

PHYSIOPATHOLOGY

The Brattleboro rat with hereditary hypothalamic diabetes insipidus. Laycock JF. **Gen Pharmacol** 8(5–6):297–302, 1977 (32 ref.)

HYPOTHYROIDISM

DRUG THERAPY

Drug therapy reviews: management of hypothyroidism. Cobb WE, et al. **Am J Hosp Pharm** 35(1):51–8, Jan 78 (79 ref.)

LACTATION

Breast cancer: potentially predisposing and protecting factors. Role of pregnancy, lactation, and endocrine status. Vorherr H, et al. **Am J Obstet Gynecol** 130(3):335–58, 1 Feb 78 (212 ref.)

MELATONIN

PHYSIOLOGY

The pineal gland: a review of the biochemistry, physiology and pharmacological potential of melatonin and other pineal substances. Shaw KM. **Adv Drug Res** 11:75–96, 1977 (63 ref.)

MSH

PHYSIOLOGY

The significance of melanocyte-stimulating hormone (MSH) and the control of its secretion in the mammal. Thody AJ. **Adv Drug Res** 11:23–74, 1977 (999 ref.)

NEOPLASTIC ENDOCRINE-LIKE SYNDROMES

SECRETION

Ectopic hormones. Blackman MR, et al. **Adv Intern Med** 23:85–113, 1978 (101 ref.)

NEUROSECRETORY SYSTEMS

METABOLISM

Elevated corticosteroids as a possible cause of abnormal neuroendocrine function in depressive illness. Kendler KS, et al. **Commun Psychopharmacol** 1(3):183–94, 1977 (54 ref.)

OVARY

IMMUNOLOGY

[The ovary and the immunity system] **Cesk Gynekol** 42(10):748–66, Dec 77 (118 ref.) **(Cze)**

PINEAL BODY

PHYSIOLOGY

The pineal gland: a review of the biochemistry, physiology and pharmacological potential of melatonin and other pineal substances. Shaw KM. **Adv Drug Res** 11:75–96, 1977 (63 ref.)

PITUITARY GLAND, ANTERIOR

CYTOLOGY

Carbonyl compound-induced fluorescence of biogenic monoamines in the endocrine cells of the hypophysis. Partanen S. **Prog Histochem Cytochem** 10(3):1–45, 1978 (156 ref.)

SECRETION

Chronobiology of growth hormone secretion. Quabbe HJ. **Chronobiologia** 4(3):217–46, Jul–Sep 77 (194 ref.)

[Neurotransmission in the hypothalamo–hypophyseal system and its role in the control of adenohypophysis secretion] Pawlikowski M, et al. **Endokrynol Pol** 28(6):461–77, Nov–Dec 77 (91 ref.) **(Pol)**

PITUITARY HORMONES

PHYSIOLOGY

Hormonal interactions in regulation of androgen secretion. Bartke A, et al. **Biol Reprod** 18(1):44–54, Feb 78 (118 ref.)

PITUITARY HORMONES, ANTERIOR

SECRETION

Endocrine profile of ergot alkaloids. Muller EE, et al. **Life Sci** 21(11):1545–58, 1 Dec 77 (104 ref.)

PITUITARY NEOPLASMS

PATHOLOGY

Pituitary adenomas. Kovacs K, et al. **Pathol Annu** 12(Pt. 2):341–82, 1977 (204 ref.)

REVIEW SECTION

PLACENTA

ENZYMOLOGY

Some new developments in the knowledge of human placental estradiol-17beta dehydrogenase. Pons M, et al. **J Steroid Biochem** 8(5):345–58, May 77 (42 ref.)

METABOLISM

Measurement of changes in the constituents of nucleic acids (total DNA and RNA) in the placenta during the course of pregnancy. Hayashi TT. **Gynecol Invest** 8(3–4):183–94, 1977 (63 ref.)

Synthesis of proteins in the placenta. Villee CA. **Gynecol Invest** 8(3–4):145–61, 1977 (83 ref.)

Placental steroid hormones. Schubert K, et al. **J Steroid Biochem** 8(5):359–62, May 77 (61 ref.)

PHYSIOLOGY

Structure and biosynthesis of human placental peptide hormones. Chatterjee M, et al. **Vitam Horm** 35:149–208, 1977 (253 ref.)

PLACENTAL LACTOGEN

BIOSYNTHESIS

Role of nucleic acids in the regulation of human placental lactogen synthesis. Gusseck DJ. **Gynecol Invest** 8(3–4):162–82, 1977 (59 ref.)

Structure and biosynthesis of human placental peptide hormones. Chatterjee M, et al. **Vitam Horm** 35:149–208, 1977 (253 ref.)

BLOOD

[A critical analysis of the present state of recognizing the fetal hazard in pregnancy, via hormonal determinations (author's transl)] Lang N, et al. **Z Geburtshilfe Perinatol** 181(5):303–20, Oct 77 (68 ref.) (Eng. Abstr.) **(Ger)**

[Hormonal admixtures in the immunoglobulin and albumin preparations] Pozina IM, et al. **Zh Mikrobiol Epidemiol Immunobiol** (1):13–8, Jan 78 (63 ref.) **(Rus)**

PHYSIOLOGY

The role of lactogenic hormones in the pregnant woman and the fetus. Josimovich JB, et al. **Am J Obstet Gynecol** 129(7):777–80, 1 Dec 77 (24 ref.)

Placental lactogens, new developments. Blank MS, et al. **J Steroid Biochem** 8(5):403–14, May 77 (114 ref.)

PREDNISONE

THERAPEUTIC USE

Chronic hepatitis. To treat or not to treat? Czaja AJ, et al. **Med Clin North Am** 62(1):71–85, Jan 78 (56 ref.)

PROGESTERONE

METABOLISM

Placental steroid hormones. Schubert K, et al. **J Steroid Biochem** 8(5):359–62, May 77 (61 ref.)

PROLACTIN

METABOLISM

The roles of prostaglandins and prolactin in depression, mania and schizophrenia. Horrobin DF. **Postgrad Med J** 53(Suppl 4):160–5, 1977 (46 ref.)

PHYSIOLOGY

The role of lactogenic hormones in the pregnant woman and the fetus. Josimovich JB, et al. **Am J Obstet Gynecol** 129(7):777–80, 1 Dec 77 (24 ref.)

PSEUDOHERMAPHRODITISM

DIAGNOSIS

[Male pseudohermaphroditism. Etiologic diagnosis. 2] Vague J, et al. **Sem Hop Paris** 53(38):2125–33, 9 Nov 77 (210 ref.) (Eng. Abstr.) **(Fre)**

RENAL OSTEODYSTROPHY

Renal bone disease—what is it and why does it happen? Feest TG, et al. **Clin Endocrinol (Oxf)** 7 Suppl:19s–23s, Dec 77 (15 ref.)

DRUG THERAPY

[Renal osteodystrophy–II–Recent therapeutic acquisitions (author's transl)] Sebert JL, et al. **Nouv Presse Med** 6(38):3533–7, 12 Nov 77 (20 ref.) (Eng. Abstr.) **(Fre)**

METABOLISM

The role of phosphate in renal bone disease. Pierides AM. **Clin Endocrinol (Oxf)** 7 Suppl:101s–107s, Dec 77 (27 ref.)

The role of vitamin D in renal bone disease. Stanbury SW. **Clin Endocrinol (Oxf)** 7 Suppl:25s–30s, Dec 77 (17 ref.)

PHYSIOPATHOLOGY

[Renal osteodystrophy. I. Recent pathophysiological acquisitions (author's transl)] Sebert JL, et al. **Nouv Presse Med** 6(37):3419–24, 5 Nov 77 (20 ref.) (Eng. Abstr.) **(Fre)**

RENIN

BLOOD

The renin–angiotensin system in the maternal and fetal circulation in pregnancy hypertension. Pipkin FB, et al. **Clin Obstet Gynaecol** 4(3):651–64, Dec 77 (90 ref.)

SEX HORMONES

METABOLISM

Placental steroid hormones. Schubert K, et al. **J Steroid Biochem** 8(5):359–62, May 77 (61 ref.)

PHYSIOLOGY

Breast cancer: potentially predisposing and protecting factors. Role of pregnancy, lactation, and endocrine status. Vorherr H, et al. **Am J Obstet Gynecol** 130(3):335–58, 1 Feb 78 (212 ref.)

Sex hormones as growth promoting factors for the endocrine hypothalamus. Naftolin F, et al. **J Steroid Biochem** 8(5):339–43, May 77 (32 ref.)

[Action of sex hormones: pathogenetic and diagnostic aspects] Szukalski B, et al. **Endokrynol Pol** 28(6):479–96, Nov–Dec 77 (90 ref.) **(Pol)**

SOMATOTROPIN

SECRETION

Chronobiology of growth hormone secretion. Quabbe HJ. **Chronobiologia** 4(3):217–46, Jul–Sep 77 (194 ref.)

REVIEW SECTION

SOMATOTROPIN RELEASE INHIBITING HORMONE

PHYSIOLOGY

Somatostatin—both hormone and neurotransmitter? Luft R, et al. **Diabetologia** 14(1):1–13, 14 Jan 78 (108 ref.)

[Somatostatin: its physiological importance and use in the internal disease clinic (a review of the literature)] Alekseev IuP. **Probl Endokrinol (Mosk)** 23(6):93–106, Nov–Dec 77 (100 ref.) **(Rus)**

STEROIDS

METABOLISM

Programming and differentiation of rat liver enzymes. Gustafsson JA, et al. **J Steroid Biochem** 8(5):429–43, May 77 (77 ref.)

Steroid epoxides in biologic systems: a review. Kadis B. **J Steroid Biochem** 9(1):75–81, Jan 78 (72 ref.)

TESTICULAR NEOPLASMS

THERAPY

Current dilemmas in the management of non-seminomatous germ cell tumors of the testis. Williams C. **Cancer Treat Rev** 4(4):275–97, Dec 77 (98 ref.)

The strategy of cancer treatment: testicular carcinoma. Carter SK. **Recent Results Cancer Res** (62):164–71, 1977 (27 ref.)

TESTIS

PHYSIOLOGY

Testicular regulation in nonmammalian vertebrates. Callard IP, et al. **Biol Reprod** 18(1):16–43, Feb 78 (270 ref.)

SECRETION

Hormonal interactions in regulation of androgen secretion. Bartke A, et al. **Biol Reprod** 18(1):44–54, Feb 78 (118 ref.)

TESTOSTERONE

SECRETION

Hormonal interactions in regulation of androgen secretion. Bartke A, et al. **Biol Reprod** 18(1):44–54, Feb 78 (118 ref.)

THYROID ANTAGONISTS

PHARMACODYNAMICS

Antithyroid drugs. Marchant B, et al. **Pharmacol Ther [B]** 3(3):305–48, 1978 (235 ref.)

THYROID CRISIS

THERAPY

[Recent aspects in the therapy of thyreotoxic crisis] Herrmann J. **Dtsch Med Wochenschr** 103(4):166–74, 27 Jan 78 (13 ref.) **(Ger)**

THYROID DISEASES

BLOOD

[Thyrotropic hormone and the thyroid gland (present status)] Kalinin AP, et al. **Ter Arkh** 49(12):131–7, 1977 (95 ref.) **(Rus)**

ETIOLOGY

Ionizing irradiation and the induction of clinically significant disease in the human thyroid gland. Maxon HR, et al. **Am J Med** 63(6):967–78, Dec 77 (59 ref.)

IMMUNOLOGY

Autoimmunity and the thyroid gland. Munro DS. **Proc R Soc Med** 70(12):855–7, Dec 77 (21 ref.)

THYROID GLAND

PHYSIOPATHOLOGY

[Morphology of functional disturbance of the thyroid (author's transl)] Böcker W. **Verh Dtsch Ges Pathol** 61:162–81, 1977 (157 ref.) (Eng. Abstr.) **(Ger)**

THYROID HORMONES

PHYSIOLOGY

Physiologic and biochemical actions of thyroid hormone. Schwartz HL, et al. **Pharmacol Ther [B]** 3(3):349–76, 1978 (180 ref.)

THYROID NEOPLASMS

Calcitonin in clinical medicine. Deftos LJ. **Adv Intern Med** 23:159–93, 1978 (127 ref.)

THYROIDITIS, LYMPHOMATOUS

IMMUNOLOGY

UCLA conference. Autoimmune thyroid diseases—Graves' and Hashimoto's. **Ann Intern Med** 88(3):379–91, Mar 78 (80 ref.)

THYROTROPIN

BLOOD

[Thyrotropic hormone and the thyroid gland (present status)] Kalinin AP, et al. **Ter Arkh** 49(12):131–7, 1977 (95 ref.) **(Rus)**

THYROTROPIN RELEASING HORMONE

[Current status of our knowledge on TRH] Usategui R, et al. **Rev Clin Esp** 147(3):229–34, 15 Nov 77 (46 ref.) **(Spa)**

TROPHOBLASTIC TUMOR

THERAPY

Primary mediastinal trophoblastic teratomas. Walden PA, et al. **Thorax** 32(6):752–8, Dec 77 (30 ref.)

VASOPRESSIN

PHYSIOLOGY

Control of water-excretion by antidiuretic hormone: some aspects of modelling the system. Oatley K. **Med Biol Eng Comput** 15(6):579–88, Nov 77 (65 ref.)

REVIEW SECTION

VITAMIN D

BLOOD

[Determination of vitamin D and its active form] Shimotsuji T, et al. **Nippon Rinsho** 35(11):3966–72, Nov 77 (45 ref.) **(Jpn)**

METABOLISM

Vitamin D metabolism. Deluca HF. **Clin Endocrinol (Oxf)** 7 Suppl:1s–17s, Dec 77 (97 ref.)

Physiological and therapeutic differences between vitamin D, its metabolites and analogues. Kanis JA, et al. **Clin Endocrinol (Oxf)** 7 Suppl:191s–201s, Dec 77 (36 ref.)

The role of vitamin D in renal bone disease. Stanbury SW. **Clin Endocrinol (Oxf)** 7 Suppl:25s–30s, Dec 77 (17 ref.)

[Clinical importance of disorders of vitamin D metabolism] Flury W. **Schweiz Med Wochenschr** 108(4):129–33, 28 Jan 78 (38 ref.) (Eng. Abstr.) **(Ger)**

METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the subheadings: analysis, blood, cerebrospinal fluid, chemical synthesis, isolation and purification, and urine).

BIOLOGICAL ASSAY

METHODS

Plasma antidiuretic hormone levels in Tammar wallabies (Macropus eugenii) as measured with a toad bioassay. Bakker HR, et al. **J Endocrinol** 76(1):167–8, Jan 78
ANIMAL/ BIOLOGICAL ASSAY, methods/ BUFO MARINUS/ *KANGAROOS, blood/ *MARSUPIALIA, blood/ *VASOPRESSIN, blood/ WATER-ELECTROLYTE BALANCE

CHEMISTRY, ANALYTICAL

METHODS

[Rapid method of determination of urinary estrogens in women in the 2d trimester of pregnancy with the aid of a semi-automatic extractor] Orlova VG, et al. **Lab Delo** (1):31–5, 1978 (Eng. Abstr.) **(Rus)**
*CHEMISTRY, ANALYTICAL, methods/ ENGLISH ABSTRACT/ *ESTROGENS, urine/ FEMALE/ FRACTIONATION, instrumentation/ *FRACTIONATION, methods/ HUMAN/ *PREGNANCY COMPLICATIONS, urine/ *PREGNANCY TRIMESTER, SECOND/ PREGNANCY

CHROMATOGRAPHY

Methods for estimating the concentration of different forms of androgen receptor in rat ventral prostate. Rennie PS, et al. **Mol Cell Endocrinol** 9(2):145–57, Dec 77
ANIMAL/ CASTRATION/ CELL NUCLEUS, metabolism/ CELLULOSE/ CHROMATOGRAPHY/ CHROMATOGRAPHY, AGAROSE/ CYTOPLASM, metabolism/ DNA/ GLYCINE/ MALE/ METHODS/ *PROSTATE, analysis/ RATS/ *RECEPTORS, ANDROGEN, analysis/ *RECEPTORS, STEROID, analysis/ TESTIS, physiology

METHODS

[Physicochemical methods of corticosteroid analysis] Kazarinov NA, et al. **Farm Zh** (6):16–27, Nov–Dec 77 (117 ref.) **(Ukr)**
*ADRENAL CORTEX HORMONES, analysis/ CHEMISTRY, PHARMACEUTICAL, methods/ *CHEMISTRY, PHYSICAL, methods/ CHROMATOGRAPHY, methods/ COLORIMETRY, methods/ DOSAGE FORMS/ INDICATORS AND REAGENTS/ KETOSTEROIDS, analysis/ MOLECULAR CONFORMATION/ PHOTOMETRY, methods/ REVIEW/ SPECTROMETRY, FLUORESCENCE, methods/ SPECTROPHOTOMETRY, INFRARED, methods/ SPECTROPHOTOMETRY, ULTRAVIOLET, methods

CHROMATOGRAPHY, AFFINITY

METHODS

Isolation of labeled triiodothyronine from serum using affinity chromatography: application to the extimation of the peripheral T4 to T3 conversion in rats. Zimmerman CJ, et al. **Metabolism** 27(3):303–13, Mar 78
ANIMAL/ CHROMATOGRAPHY, AFFINITY, methods/ IMMUNOSORBENT TECHNICS/ IODINE RADIOISOTOPES/ MALE/ RATS/ THYROID GLAND/ *THYROXINE, blood/ *TRIIODOTHYRONINE, blood/ TRIIODOTHYRONINE, isolation & purification/ U.S. GOV'T SUPPORTED, N.I.H.

CHROMATOGRAPHY, AGAROSE

Methods for estimating the concentration of different forms of androgen receptor in rat ventral prostate. Rennie PS, et al. **Mol Cell Endocrinol** 9(2):145–57, Dec 77
ANIMAL/ CASTRATION/ CELL NUCLEUS, metabolism/ CELLULOSE/ CHROMATOGRAPHY/ CHROMATOGRAPHY, AGAROSE/ CYTOPLASM, metabolism/ DNA/ GLYCINE/ MALE/ METHODS/ *PROSTATE, analysis/ RATS/ *RECEPTORS, ANDROGEN, analysis/ *RECEPTORS, STEROID, analysis/ TESTIS, physiology

CHROMATOGRAPHY, GAS

Method for screening urinary steroids by gas chromatography. Trocha P, et al. **Clin Chem** 24(2):193–9, Feb 78
ADULT/ CHILD/ CHROMATOGRAPHY, GAS/ COLORIMETRY/ COMPARATIVE STUDY/ ENDOCRINE DISEASES, urine/ FEMALE/ HUMAN/ HYDROLYSIS/ MALE/ METHODS/ PREGNANCY/ *STEROIDS, urine/ U.S. GOV'T SUPPORTED, NON-N.I.H.

Gas chromatographic determination of 18-hydroxy-11-deoxycorticosterone. Tomsová Z, et al. **J Chromatogr** 145(1):131–6, 1 Jan 78
CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ *DESOXYCORTICOSTERONE, analogs & derivatives/ HUMAN/ METHODS/ *18-HYDROXYDESOXYCORTICOSTERONE, blood

METHODS

[GLC method for microdetermination of catecholamines (author's transl)] Ioneda T, et al. **Arq Inst Biol (Sao Paulo)** 44(1–2):63–7, Jan–Jun 77 **(Por)**
*CATECHOLAMINES, analysis/ *CHROMATOGRAPHY, GAS, methods

CHROMATOGRAPHY, GEL

Radioimmunoassay of 3,3',5'-triiodothyronine (reverse T3) on small reusable sephadex columns. Faber J, et al.

Acta Endocrinol (Kbh) 87(2):313–9, Feb 78
ADSORPTION/ ADULT/ AGED/ CHROMATOGRAPHY, GEL/ FEMALE/ HUMAN/ MALE/ MIDDLE AGE/ PROTEIN BINDING/ *RADIOIMMUNOASSAY, methods/ *THYROID DISEASES, blood/ THYROXINE, blood/ *TRIIODOTHYRONINE, blood

Thyroid hormone kinetics: improved method for quantitative separation and measurement of the various radioiodothyronine injection. Aickin CM, et al. **Clin Endocrinol (Oxf)** 7(6):469–79, Dec 77
CHROMATOGRAPHY, GEL/ COMPARATIVE STUDY/ *IODINE RADIOISOTOPES, diagnostic use/ RADIOIMMUNOASSAY, methods/ *THYRONINE, blood/ *TRIIODOTHYRONINE, blood

Purification of the cytosol oestradiol-receptor complex from foetal guinea-pig uterus using electrofocusing on polyacrylamide plates. Pasqualini JR, et al. **Experientia** 34(2):268–9, 15 Feb 78
ACRYLIC RESINS/ ANIMAL/ CHROMATOGRAPHY, GEL/ *CYTOSOL, analysis/ ESTRADIOL, isolation & purification/ *ESTRADIOL, metabolism/ FEMALE/ FETUS/ GUINEA PIGS/ IN VITRO/ ISOELECTRIC FOCUSING, methods/ PREGNANCY/ *RECEPTORS, ESTROGEN, isolation & purification/ RECEPTORS, ESTROGEN, metabolism/ UTERUS, analysis/ *UTERUS, cytology

Double isotope derivative dilution method for the determination of prostaglandin F and E type metabolites in urine. Aizawa Y, et al. **Prostaglandins** 14(6):1165–74, 1977
ANIMAL/ CHROMATOGRAPHY, GEL/ HUMAN/ INDOMETHACIN, pharmacodynamics/ *PROSTAGLANDINS E, urine/ *PROSTAGLANDINS F, urine/ *RADIOISOTOPE DILUTION TECHNIC, methods

[Rabbit testosterone-binding globulin and its use in concurrent protein-binding analysis] Polyntsev IuV, et al. **Probl Endokrinol (Mosk)** 23(6):62–9, Nov–Dec 77 (Eng. Abstr.) **(Rus)**
ANDROGENS, blood/ ANIMAL/ CHROMATOGRAPHY, GEL/ ENGLISH ABSTRACT/ FEMALE/ HUMAN/ MALE/ PREGNANCY/ PROTEIN BINDING/ RABBITS/ *RADIOLIGAND ASSAY, methods/ *SEX HORMONE BINDING GLOBULIN, blood/ STEROIDS, isolation & purification/ *TESTOSTERONE, blood/ TRITIUM/ ULTRACENTRIFUGATION

CHROMATOGRAPHY, ION EXCHANGE

Rapid procedure for chromatographic isolation of DOPA, DOPAC, epinephrine, norepinephrine and dopamine from a single urinary sample at endogenous levels. Dalmaz Y, et al. **J Chromatogr** 145(1):11–27, 1 Jan 78
ADSORPTION/ ALUMINUM OXIDE/ ANIMAL/ *CATECHOLAMINES, urine/ CHROMATOGRAPHY, ION EXCHANGE/ DOPA, urine/ DOPAMINE, urine/ EPINEPHRINE, urine/ EVALUATION STUDIES/ HUMAN/ METHODS/ NOREPINEPHRINE, urine/ *PHENYLACETATES, urine/ RATS/ *3,4-DIHYDROXYPHENYLACETIC ACID, urine

INSTRUMENTATION

A procedure for the isolation of noradrenaline (together with adrenaline), dopamine, 5-hydroxytryptamine and histamine from the same tissue sample using a single column of strongly acidic cation exchange resin. Atack C, et al. **Acta Pharmacol Toxicol (Kbh)** 42(1):35–57, Jan 78
ANIMAL/ *CATECHOLAMINES, isolation & purification/ CHROMATOGRAPHY, ION EXCHANGE, instrumentation/ *CHROMATOGRAPHY, ION EXCHANGE, methods/ DOPAMINE, isolation & purification/ EPINEPHRINE, isolation & purification/ FLUOROMETRY, instrumentation/ *FLUOROMETRY, methods/ *HISTAMINE, isolation & purification/ NOREPINEPHRINE, isolation & purification/ RATS/ *SEROTONIN, isolation & purification

METHODS

A procedure for the isolation of noradrenaline (together with adrenaline), dopamine, 5-hydroxytryptamine and histamine from the same tissue sample using a single column of strongly acidic cation exchange resin. Atack C, et al. **Acta Pharmacol Toxicol (Kbh)** 42(1):35–57, Jan 78
ANIMAL/ *CATECHOLAMINES, isolation & purification/ CHROMATOGRAPHY, ION EXCHANGE, instrumentation/ *CHROMATOGRAPHY, ION EXCHANGE, methods/ DOPAMINE, isolation & purification/ EPINEPHRINE, isolation & purification/ FLUOROMETRY, instrumentation/ *FLUOROMETRY, methods/ *HISTAMINE, isolation & purification/ NOREPINEPHRINE, isolation & purification/ RATS/ *SEROTONIN, isolation & purification

CHROMATOGRAPHY, PAPER

Gas chromatographic determination of 18-hydroxy-11-deoxycorticosterone. Tomsová Z, et al. **J Chromatogr** 145(1):131–6, 1 Jan 78
CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ *DESOXYCORTICOSTERONE, analogs & derivatives/ HUMAN/ METHODS/ *18-HYDROXYDESOXYCORTICOSTERONE, blood

CHROMATOGRAPHY, THIN LAYER

Gas chromatographic determination of 18-hydroxy-11-deoxycorticosterone. Tomsová Z, et al. **J Chromatogr** 145(1):131–6, 1 Jan 78
CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ *DESOXYCORTICOSTERONE, analogs & derivatives/ HUMAN/ METHODS/ *18-HYDROXYDESOXYCORTICOSTERONE, blood

METHODS

A facile method for detection of the genuine sapogenin from a saponin extract. Segal R, et al. **Anal Biochem** 84(1):78–84, Jan 78
CHROMATOGRAPHY, THIN LAYER, methods/ ERYTHROCYTE MEMBRANE, metabolism/ HEMOLYSIS/ *SAPONINS, analysis/ SAPONINS, metabolism/ *STEROIDS, analysis

COLORIMETRY

Method for screening urinary steroids by gas chromatography. Trocha P, et al. **Clin Chem** 24(2):193–9, Feb 78
ADULT/ CHILD/ CHROMATOGRAPHY, GAS/ COLORIMETRY/ COMPARATIVE STUDY/ ENDOCRINE DISEASES, urine/ FEMALE/ HUMAN/ HYDROLYSIS/ MALE/ METHODS/ PREGNANCY/ *STEROIDS, urine/ U.S. GOV'T SUPPORTED, NON-N.I.H.

METHODS

[Physicochemical methods of corticosteroid analysis] Kazarinov NA, et al. **Farm Zh** (6):16–27, Nov–Dec 77 (117 ref.) **(Ukr)**
*ADRENAL CORTEX HORMONES, analysis/ CHEMISTRY, PHARMACEUTICAL, methods/ *CHEMISTRY, PHYSICAL, methods/ CHROMATOGRAPHY, methods/ COLORIMETRY, methods/ DOSAGE FORMS/ INDICATORS AND REAGENTS/ KETOSTEROIDS, analysis/ MOLECULAR CONFORMATION/ PHOTOMETRY, methods/ REVIEW/ SPECTROMETRY, FLUORESCENCE, methods/ SPECTROPHOTOMETRY, INFRARED, methods/ SPECTROPHOTOMETRY, ULTRAVIOLET, methods

COMPARATIVE STUDY

Automated measurement of serum thyroxine with the 'ARIA II,' as compared with competitive protein binding and radioimmunoassay. Reese MG, et al. **Clin Chem** 24(2):342–4, Feb 78
ANTIBODY SPECIFICITY/ BINDING, COMPETITIVE/ COMPARATIVE STUDY/ CROSS REACTIONS/ HUMAN/ METHODS/ PROTEIN BINDING/ RADIOIMMUNOASSAY/ RADIOIMMUNOSORBENT TEST/ *THYROXINE, blood

Method for screening urinary steroids by gas chromatography. Trocha P, et al. **Clin Chem** 24(2):193–9, Feb 78
ADULT/ CHILD/ CHROMATOGRAPHY, GAS/ COLORIMETRY/ COMPARATIVE STUDY/ ENDOCRINE DISEASES, urine/ FEMALE/ HUMAN/ HYDROLYSIS/ MALE/ METHODS/ PREGNANCY/ *STEROIDS, urine/ U.S. GOV'T SUPPORTED, NON-N.I.H.

Thyroid hormone kinetics: improved method for quantitative separation and measurement of the various radioiodothyronine injection. Aickin CM, et al. **Clin Endocrinol (Oxf)** 7(6):469–79, Dec 77
CHROMATOGRAPHY, GEL/ COMPARATIVE STUDY/ *IODINE RADIOISOTOPES, diagnostic use/ RADIOIMMUNOASSAY, methods/ *THYRONINE, blood/ *TRIIODOTHYRONINE, blood

Comparative study of serum luteinizing hormone levels in human subjects as measured by radioimmunoassay and radioreceptorassay. Scaglia HE, et al. **Fertil Steril** 29(1):88–94, Jan 78
ADULT/ BINDING SITES/ COMPARATIVE STUDY/ FEMALE/ GONADOTROPINS, CHORIONIC/ HUMAN/ HYPOPHYSECTOMY/ *LH, blood/ MALE/ MENSTRUATION/ RADIOIMMUNOASSAY/ *RADIOLIGAND ASSAY, methods

The precision of clinical estriol and total estrogen estimations in pregnancy urine. Huis in 't Veld LG, et al. **J Clin Chem Clin Biochem** 16(2):119–25, Feb 78
COMPARATIVE STUDY/ *ESTRIOL, urine/ *ESTROGENS, urine/ EVALUATION STUDIES/ FEMALE/ HUMAN/ METHODS/ *PREGNANCY TRIMESTER, THIRD/ PREGNANCY

Radioimmunoassay of FSH in the plasma of post-partum dairy cows. Dobson H. **J Reprod Fertil** 52(1):45–9, Jan 78
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[Immunoenzymatic method of determining protein hormones in the blood and biological fluids] Sukhikh VF. **Probl Endokrinol (Mosk)** 23(6):82–5, Nov-Dec 77 (Eng. Abstr.) (Rus)
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Radioimmunological determination of reverse triiodothyronine in unextracted serum and serum dialysates. Laurberg P, et al. **Scand J Clin Lab Invest** 37(8):735–9, Dec 77
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A procedure for the isolation of noradrenaline (together with adrenaline), dopamine, 5-hydroxytryptamine and histamine from the same tissue sample using a single column of strongly acidic cation exchange resin. Atack C, et al. **Acta Pharmacol Toxicol (Kbh)** 42(1):35–57, Jan 78
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[Rapid method of determination of urinary estrogens in women in the 2d trimester of pregnancy with the aid of a semi-automatic extractor] Orlova VG, et al. **Lab Delo** (1):31–5, 1978 (Eng. Abstr.) **(Rus)**
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METHODS

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[Physicochemical methods of corticosteroid analysis] Kazarinov NA, et al. **Farm Zh** (6):16–27, Nov-Dec 77 (117 ref.) **(Ukr)**
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Radioimmunoassay of 3,3',5'-triiodothyronine (reverse T3) on small reusable sephadex columns. Faber J, et al. **Acta Endocrinol (Kbh)** 87(2):313–9, Feb 78
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[Rabbit testosterone-binding globulin and its use in concurrent protein-binding analysis] Polyntsev IuV, et al. **Probl Endokrinol (Mosk)** 23(6):62–9, Nov-Dec 77 (Eng. Abstr.) **(Rus)**
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RADIOISOTOPE DILUTION TECHNIC

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RADIOLIGAND ASSAY

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[Rabbit testosterone-binding globulin and its use in concurrent protein-binding analysis] Polyntsev IuV, et al. **Probl Endokrinol (Mosk)** 23(6):62–9, Nov–Dec 77 (Eng. Abstr.) **(Rus)**
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METHODS

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SPECTROMETRY, X-RAY EMISSION

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Roentgen ray fluorescence method for determination of iodine in tissue. Puumalainen P, et al.
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ULTRACENTRIFUGATION

[Rabbit testosterone-binding globulin and its use in concurrent protein-binding analysis] Polyntsev IuV, et al. **Probl Endokrinol (Mosk)** 23(6):62-9, Nov-Dec 77 (Eng. Abstr.) (Rus)
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DHEW Publication No. (NIH) 78-273